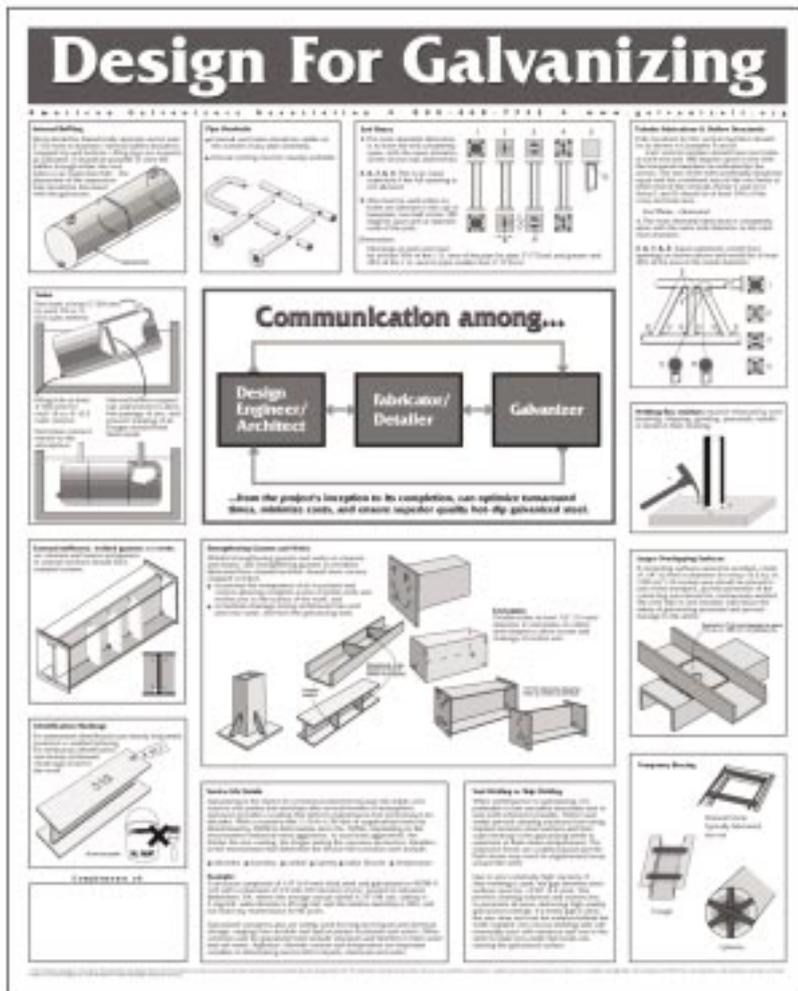


New AISC Specification for Nuclear Facilities Available

A new AISC specification, *Load and Resistance Factor Design of Safety-Related Steel Structures for Nuclear Facilities* (ANSI/AISC N690L-03), is now available for free downloading on the AISC web site. This is the first version of the document based on the load and resistance factor design (LRFD) method. It has been approved by the AISC Committee on Specifications and it is ANSI-accredited. The allowable stress design (ASD) version (ANSI/AISC N690-94) already had been available, along with a Supplement dated April 15, 2002. There are plans to produce a "unified" version, similar in format to the 2005 AISC *Specification for Structural Steel Buildings*, by 2006. The unified version will allow the designer to use either ASD or LRFD methods of design. ★

AGA Offers Free Galvanizing Poster

The American Galvanizers Association (AGA) is offering a free "Design for Galvanizing" poster. This wall poster gives any fabricator, architect, engineer, or specifier a quick reference when designing steel fabrications to be hot-dip galvanized. Developed to help optimize turnaround times, minimize costs, and result in a superior-quality end product, the poster addresses topics such as the location of vent and drain holes, welding, identification marking products, service-life prediction, and more. For your free copy of this design poster, please contact Sue Bieber at 800.468.7732 x11, or e-mail publications@galvanizeit.org. ★



2004 Winners of AISC Scholarships & Fellowships

AISC announces the 2004 winners of Scholarships and Fellowships. A total of \$49,500 was distributed by AISC and industry associations. Contact Fromy Rosenberg, P.E., AISC Director of University Relations, for further information at rosenberg@aisc.org.

2004 AISC/Carolina Steel Scholarship: Raymond Richard Foltz, The Citadel, Charleston, SC

2004 AISC/Southern Association of Steel Fabricators Scholarship: Jeremy Grant Godwin, Tennessee Technological University, Cookeville, TN

2004 AISC/Associated Steel Erectors of Chicago Scholarships: John G. Doles, Illinois Institute of Technology, Chicago; Megan Marie Folkman, Illinois Institute of Technology, Chicago; William Lucius Griffiths, Northwestern University, Evanston, IL; Donald R. Kinzler, University of Illinois - Chicago, Chicago; Collwyn Chen Tan, Northwestern University, Evanston, IL; and James Robert Wonneberg, University of Illinois - Chicago, Chicago.

2004 AISC/Fred R. Havens Fellowship: Jake James Perkins, Kansas State University, Manhattan, KS

2004 AISC/Structural Steel Fabricators of New England Fellowship: Michael C. Gryniuk, Tufts University, Medford, MA

2004 AISC/US Steel Fellowship: Dylan Matthew Lamar, University of Illinois at Urbana-Champaign, Champaign, IL

2004 AISC/Klingelhofer Fellowship: Jason M. Reither, Villanova University, Villanova, PA

2004 AISC/Great Lakes Fabricators and Erectors Association Fellowship: Jason A. Harris, Wayne State University, Detroit

2004 AISC/Southern Association of Steel Fabricators Fellowship: Jarrod Clinton Burns, University of Arkansas, Fayetteville, AR

2004 AISC/Rocky Mountain Steel Construction Association Fellowship: Renée Michelle Anderson, Colorado School of Mines, Golden, CO.

2004 AISC/Structural Steel Education Council Fellowship: Stephen Robert Spence, Santa Clara University, Santa Clara, CA. ★

ASCE Seminar: Progressive Collapse Mitigation

ASCE's new two-day seminar, "Progressive Collapse Mitigation: Practical Analysis Methods and Proven Solutions," will be presented in Baltimore, Jan. 20-21, 2005 and Scottsdale, AZ, Feb. 24-25, 2005. The seminar is a practical course on the development and intent of national anti-terrorism building-design guidelines and standards and their supporting research. The seminar will show how to implement these design guidelines using actual projects as teaching models. The course also discusses proven cost-effective solutions, with emphasis on steel-framed applications.

Special guest speakers will be Bruce Hall, P.E., of GSA's Office of the Chief

Architect (OCA) who will speak on the development of the GSA's June 2003 "Progressive Collapse Analysis and Design Guidelines" for satisfying Interagency Security Committee (ISC) Security Criteria. Bernie Deneke, P.E., of Naval Facilities Engineering Command (NAVFAC EICO) will speak on the development of the new DoD Unified Facilities Criteria (UFC) "Design of Buildings to Resist Progressive Collapse." Jesse Karns, P.E., S.E., of Myers, Houghton & Partners-Structural Engineers, and Henry Gallart, P.E., S.E., of SidePlate Systems will be the seminar instructors. For more information or to register, visit www.asce.org. ★

Call for Papers: 2005 NASCC

Designers, contractors, detailers, erectors, and educators are invited to submit proposals for the poster session at the 2005 North American Steel Construction Conference. All poster presenters will receive free registration to the NASCC. The 2005 Conference will be held April 6-9 in Montreal, Canada. Abstracts are due Oct. 1, 2004; accepted presenters will be notified by November 15.

Presentations should provide practical information on state-of-the-art design or construction methods, or present information on the relevant research activities. Possible topics include innovative projects, design, fabrication or erection solutions, EDI, fire engineering, blast and progressive collapse, software or product innovations, new steel systems, seismic design, wind engineering, connection design, and research updates/results, etc.

Final presentations should be mounted on 24"x36" boards (maximum size), which will be displayed in the main exhibit hall at the conference. Presenters should be available to discuss their presentations on April 6 (5-6 p.m.), April 7 (noon-1 p.m.), and April 8 (noon-1 p.m.). Please submit your abstract by Oct. 1, 2004 to:

Scott Melnick
AISC, Inc.
One East Wacker Dr., Suite 3100
Chicago, IL 60601
melnick@aisc.org ★

New Edition of AISC Design Guide 4 Available

The second edition of *Design Guide 4: Extended End Plate Moment Connections* is now available. The recently updated design guide presents a new design philosophy for the design of extended end-



plate moment connections in wind and seismic applications. The guide incorporates the state of the art in end-plate connection design by making use of yield line theory.

The authors of the new design guide are Thomas Murray, Ph.D., P.E., Montague-Betts Professor of Structural Steel Design at Virginia Tech and Emmett Sumner, Ph.D., P.E., Assistant Professor at North Carolina State University

Because of the change in design theory, this revised design guide "extends end-plate moment connection design to seismic applications" and "presents design procedures for 50 ksi steel" according to Thomas Murray.

The *Design Guide* is available to AISC members and ePubs subscribers as a free download from AISC's ePubs web site, www.aisc.org/epubs. Hard copies can be purchased at www.aisc.org/bookstore (\$30 for AISC members, \$60 for non-members), or call 800.644.2400. ★

AISC and IAI Begin Work on International Model for EDI

AISC and the International Alliance for Interoperability (IAI) have formed an alliance to work cooperatively to advance the use of new technology in the AEC industry.

"The first effort is to develop a joint technical advisory committee," explained Gabe Coleman, AISC's Director of Information Technology. "This committee's charter will be to develop the business cases for 'harmonization' of the CIS/2 and IFC (IAI) data exchange standards. The goal is to seamlessly integrate structural steel into the overall building information model (BIM)—the electronic 3D representation of a building, seen to be the future method of AEC industry production."

According to a memorandum of understanding signed by the two groups, the goals of the alliance are to:

- Foster a strong, continuing alliance to better serve the construction industry, AISC members, and IAI members.
- Provide an effective communication and coordination mechanism to enable AISC and IAI to work effectively on specific projects.
- Leverage the strengths of our organizations to develop unique products and services that will expand each other's markets, better serve our members and customers, and better serve the industry.
- Collaborate on select national issues in order for the construction and structural steel community to have the greatest impact on these issues.

As part of the alliance, AISC has been invited to present at IAI meetings in Bath, United Kingdom, and Munich, Germany in 2004. ★

Correction

Modern Steel Construction mistakenly omitted AISC-member fabricator Canron Construction Company from the project team lists for "Seattle Seahawks Stadium" (April 2004) and "Classic Revival" (June 2004). We regret any confusion caused by the omission. ★

AIA Offers Online Program on Coping with Material Price Volatility

A new on-line continuing education program from the American Institute of Architects (AIA) focuses on developing an understanding of the dynamics of the current volatility of various construction materials, including structural steel, Portland cement, plywood, and other staple construction materials.

The program, which featured two economists (one from the AIA and the other from the Associated General Contractors) and AISC's Vice President of Marketing offers specific suggestions for designers to help their clients cope with the current market volatility. In addition, data is provided on the wide availability of structural steel compared with other construction materials.

According to John Cross, P.E., AISC's Vice President of Marketing and one of the presenters at the AIA program, five factors must be considered to understand the impact of recent material price changes:

- **Volume.** The capacity of domestic steel mills (6 million tons) exceeds

domestic demand for wide-flange steel members (4 million tons).

- **Velocity.** Currently, the steel industry has maintained the standard six-to-eight-week mill cycle for wide flange; in addition, there is an estimated 1 million tons of service center inventory.
- **Value.** The net impact of structural steel increases is 1.5% of project cost; overall project impact for all types of steel is between 7% and 8%; and when all materials are considered there is no appreciable cost difference between structural framing systems (steel or concrete).
- **Variety.** The variety of structural steel shapes has minimized stockpiling by contractors, which has prevented shortages of wide-flange material.
- **Volatility.** All construction materials are in a period of long-term volatility; short stability could occur, but cannot be relied upon.

"Designers need to consider changing their processes rather than waiting for stability to return to the marketplace," Cross stated. Among his suggestions are:

- Involving specialty contractors early in projects
- Exploring process innovations like EDI and 3-D modeling
- Improving project communications
- Evaluating costs on a consistent, current basis
- Examining bidding and material-acquisition practices
- Utilizing industry tools like the AISC Steel Solutions Center to bring value to the project.

The program offers 1.5 learning units and costs \$99.95 (\$49.95 for AIA members). For more information, visit <http://eclassroom.aia.org>. ★